Classification Approaches

- Decision Tree based Methods
- Rule-based Methods
- Memory based reasoning
- Neural Networks
- Genetic Algorithms
- Bayesian Networks

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Data Mining Tasks...

- Classification [Predictive]
- Clustering [Descriptive]
- Association Rule Discovery [Descriptive]
- Sequential Pattern Discovery [Descriptive]
- Regression [Predictive]
- Deviation Detection [Predictive]

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Chapter 2: Serial Algorithms for Classification

Outline

- **Decision Tree Classifiers**
  - What are Decision Trees
  - Tree Induction
    - C4.5, SLIQ, SPRINT
  - Tree Pruning
- **Other Classifiers**
  - Memory Based Reasoning
  - Neural Net
  - Bayesian

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